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FLAME-RETARDANT POLYOLEFIN RESIN COMPOSITION

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Abstract

PROBLEM TO BE SOLVED: To obtain a nonhalogen composition having excellent flame retardancy and elongation at break by incorporating a specified amount of a polyolefin resin and a specified amount of an organically treated swelling clay mineral.

SOLUTION: This composition comprises 100 pts.wf. polyolefin resin (e.g. PE) and 1-200 pts.wf. organically treated swelling day mineral, desirably, smectite, more desirably, montmorillonite and/or hectorite or comprises 100 pts.wf. polyolefin resin, 0.5-100 pts.wf. organically treated swelling clay mineral, and 0.5-100 pts.wf. polyolefin resin, 0.5-100 pts.wf. polyolefin resin, desirably the dest one member selected among red phosphorus, polyammonium phosphate, and a phosphorus compound of the formula (wherein R<1> and R<3> are each H, a 1-16C alkyl, or an aryl; and R<2> is R<1>. OH, an alkoxyl, or an aryloxyl. Alternatively, it comprises 100 pts.wf. polyolefin resin, 1-200 pts.wf. organically treated swelling clay mineral, and 0.01-20 wt.%, based on the clay mineral, metal oxide.

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